OIPE JC16
MAR 12 2004
PATENT & TRADEMARK OFFICE

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Sumit Talwar et al.

Title: LOGIC CIRCUIT AND METHOD FOR CARRY AND SUM GENERATION AND METHOD OF DESIGNING SUCH A LOGIC CIRCUIT

| | | | |
|---|---|---|---|
| Docket No.: | 1365.063US1 | Serial No.: | 10/714408 |
| Filed: | November 14, 2003 | Due Date: | N/A |
| Examiner: | Unknown | Group Art Unit: | 2124 |

**MS Non-Fee Amendment**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

X A return postcard.
X A Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 7 cited documents.

**If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.**

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186

By: _____
Atty: Timothy B. Clise
Reg. No. 40,957

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 9th day of March, 2004.

PATRICIA A. HULTMAN
Name

_____
Signature

OIPE JC10 MAR 12 2004 PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|---|---|---|---|
| Applicant: | Sunil Talwar et al. | Examiner: | Unknown |
| Serial No.: | 10/714,408 | Group Art Unit: | 2124 |
| Filed: | November 14, 2003 | Docket: | 1365.063US1 |
| Title: | LOGIC CIRCUIT AND METHOD FOR CARRY AND SUM GENERATION AND METHOD OF DESIGNING SUCH A LOGIC CIRCUIT | | |

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisi,ons of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

SUNIL TALWAR ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 349-9587

Date 9 March '04 By _____
Timothy B Clise
Reg. No. 40,957

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 9th day of March, 2004.

Patricia A Wittman
Name

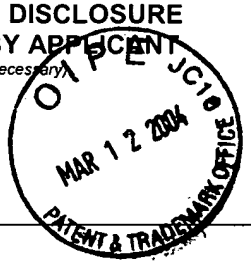
Signature

PTO/SB/08A(10-01)
Approved for use through 10/31/2002. OMB 651-0031
US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*




| *Complete if Known* | |
|---|---|
| **Application Number** | 10/714408 |
| **Filing Date** | November 14, 2003 |
| **First Named Inventor** | Talwar, Sunil |
| **Group Art Unit** | 2124 |
| **Examiner Name** | Unknown |

Sheet 1 of 1

Attorney Docket No: 1365.063US1

## US PATENT DOCUMENTS

| Examiner Initial * | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Class | Subclass | Filing Date If Appropriate |
|---|---|---|---|---|---|---|
| | | | | | | |

## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | Class | Subclass | T[2] |
|---|---|---|---|---|---|---|
| | | | | | | |

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No [1] | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
|---|---|---|---|
| | | BEDRIJ, O. J., "Carry-Select Adder", IRE Trans., EC-11, (June 1962), 340-346 | |
| | | KNOWLES, S., "A Family of Adders", Proc. 14th IEEE Symp. on Computer Arithmetic, (1999), 30-34 | |
| | | KOGGE, P. M., et al., "A Parallel Algorithm for the Efficient Solution of a General Class of Recurrence Equations", IEEE Trans. Computers, Vol. C-22, No. 8, (Aug. 1973), 786-793 | |
| | | LADNER, RICHARD E., et al., "Parallel Prefix Computation", Journal of ACM, Vol. 27, No. 4, (Oct. 1980), 831-838 | |
| | | LING, HUEY, "High-Speed Binary Adder", IBM Journal of Research and Development, Vol. 25, No. 3, (1981), 156-166 | |
| | | SKLANSKY, J., "Conditional-Sum Addition Logic", IRE Trans., EC-9, (June 1960), 226-231 | |
| | | WEINBERGER, A. , et al., "A Logic for High-Speed Addition", Nat. Bur. Stand. Circ., 591, (1958), 3-12 | |

**EXAMINER** **DATE CONSIDERED**



* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached